



BILL OF MATERIAL

MARINE CORPS BASE
CAMP LEJEUNE, N. C.

MADE 10/22/80 BY MITCHELL

(1) MODEL TDG-5-26 FORCED DRAFT
DEGASIFIER

JOB A141J-24366-98

CHECKED BY _____

SHEET 1 OF 1

	DRAWING	QUANT.	DESCRIPTION	ACCT.
1				070-61-50
2			DEGASIFIER	185-15785
3			INSTALLATION DWG.	129-25357
4				
5	100-13726	1	MODEL TDG-5-26 FORCED DRAFT DEGASIFIER	
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INDEX

W. S. POWERS

MADE 10/22/80 BY MITCHELL

TDG 5 FT. - 26 DEGASIFIER

CHECKED BY _____

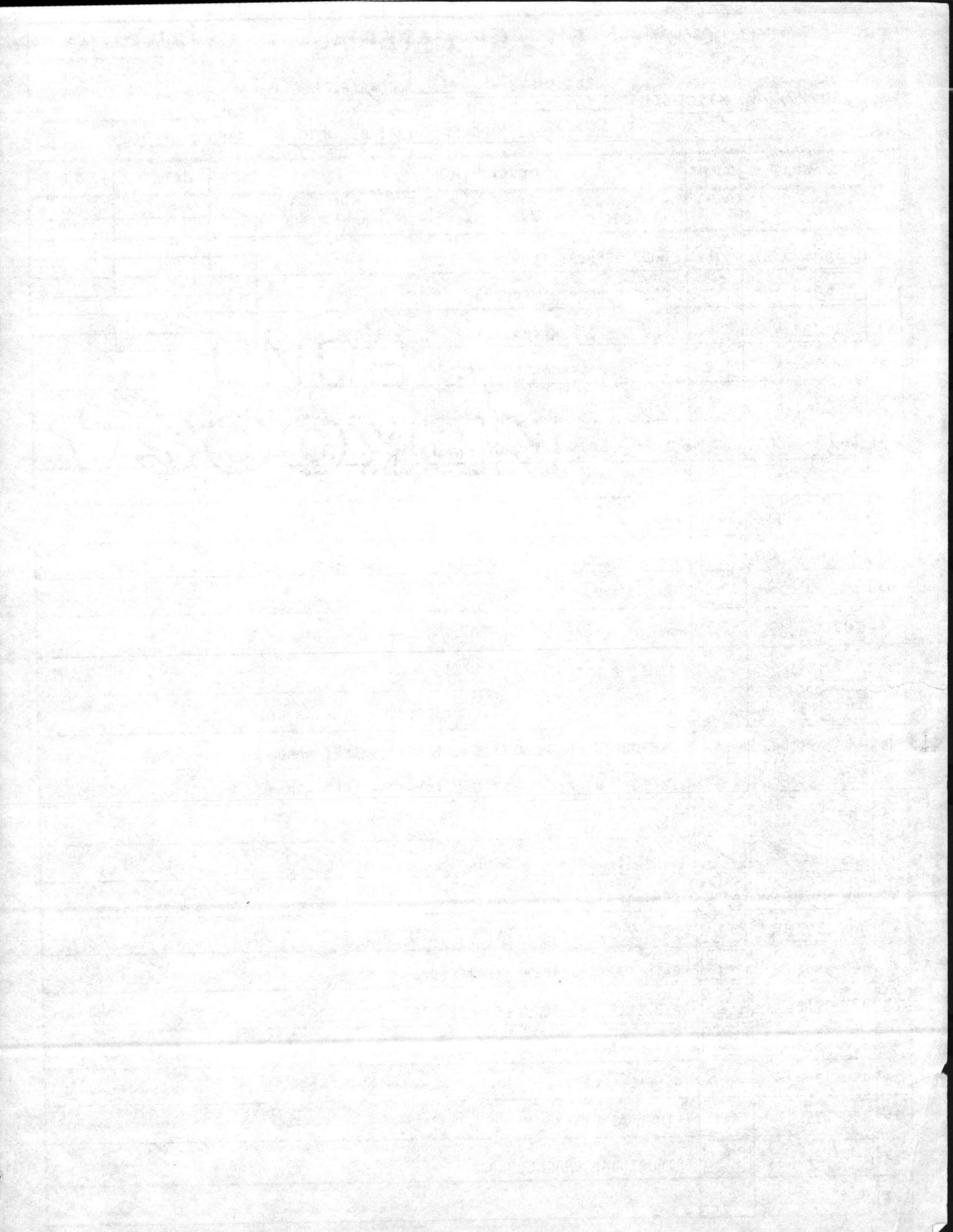
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DRAFT - VARIABLE B/M

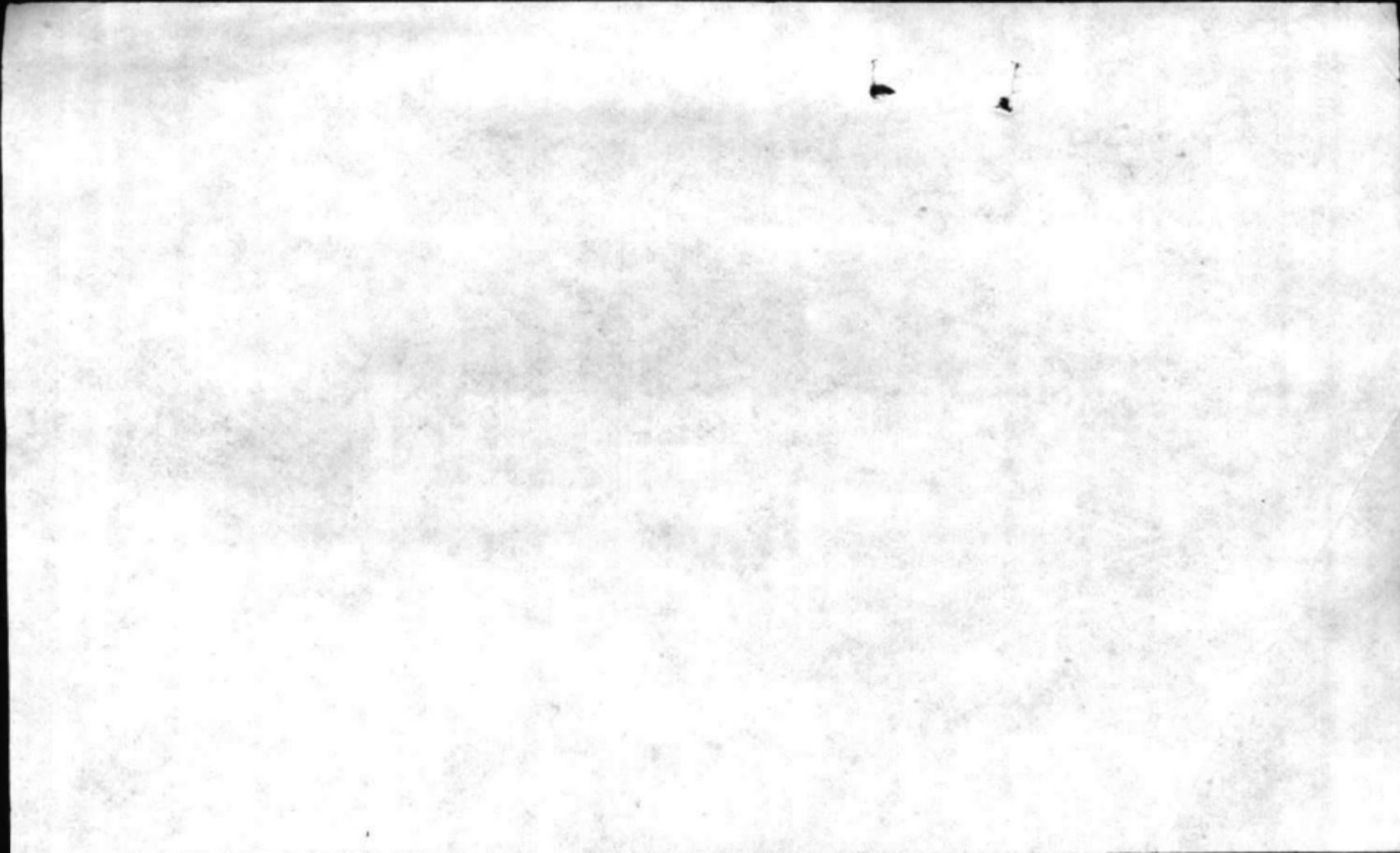
JOB _____

SHEET 1 OF 1

	DRAWING	QUANT.	DESCRIPTION	REV.	DATE	E.C.N.
1			AIR OUTLET R.H. , AIR INLET R.H. , DOOR R.H.			
2	136 -25347	1	DOOR SUPPORT, LOWER			
3	136 -25348	1	DOOR SUPPORT, UPPER			
4	100-13414	1	TDG 5 FT. B/M (BASIC)			
5	100-13322	1	SEAL - WATER OUTLET (FORCED DRAFT ONLY)			
6	167 -31623	1	PANEL - DOOR			
7	167 -31860	2	TRIM - DOOR & GASKET (VERTICAL)			
8						
9	187-19313	26	FT. GASKET - DOOR			
10						
11						
12	167 -31626	2	PANEL - SIDE - RIGHT HAND & LEFT HAND			
13	167 -31629	1	PANEL - BACK			
14	167 -31844	1	SUPPORT W. A. - VERTICAL (FRONT - RIGHT HAND)			
15	167 -31847	1	SUPPORT W. A. - VERTICAL (FRONT - LEFT HAND)			
16	167 -31856	2	SUPPORT W. A. - VERTICAL (RIGHT & LEFT - BACK)			
17	167 -31866	2	CLAMP - DOOR			
18	129-25427	<input checked="" type="checkbox"/>	DEMISTER CURB - ASSEMBLY			
19	187-19292	<input checked="" type="checkbox"/>	DEMISTER			
20	187- 19159	1	FAN - AIR (1635 CUBIC FT./MIN. @ 1.0" S.P.) (SHIP LOOSE)			
21	187-19161	1	RAIN CAP & SCREEN (SHIP LOOSE)			
22	187-19406	1	AIR INLET NOZZLE (SHIP LOOSE)			
23	150-25364	50	TRAY - ASSEMBLY			
24	156-17502	REF.	ASSEMBLY DETAILS			
25	156-17500	REF.	FINAL ASSEMBLY			
26	<input type="checkbox"/> -17503	<input checked="" type="checkbox"/>	STRUCTURAL CHANNEL BASE			
27						



Bob Merca Already Ordered
De gasifier from factory. Purchasing
Officer has NOT signed contract yet.
Merca Jumped gun. Prints + Specifications
will come later. Call Harris if
any questions.



To: Marine Corps Base
P.O. Box 8368, MCB
Purch. & Contracting Div.
Camp Lejeune, N.C. 28542

Page 1 of 2

Date: July 23, 1981

Subject: Marine Corps Base

Attention: Mr. J.A. Harris/F. Gill

Your P.O. No. M67001-81-C-0271

Your Project No.

Permutit File No. A141L-28554-98

Gentlemen:

Enclosed are 4 prints ----- sepias of final drawings and/or other data, per attached list, pertinent to equipment being furnished under the subject order, for your records and distribution. Some of these drawings and/or data will be referred to in our Operating Instruction Manuals. Please see that they are made available to the persons receiving copies of these instructions.

It should be noted that the equipment as shown has been released for fabrication and that no Purchaser changes are permitted within the contract price on these drawings and/or data. Should changes be required by Purchaser to these drawings and/or data, The Permutit Company, Inc., will submit an estimate of Engineering and/or material costs for Purchaser's acceptance before making such changes. Delay of shipping date will also result if the Purchaser requests drawing changes.

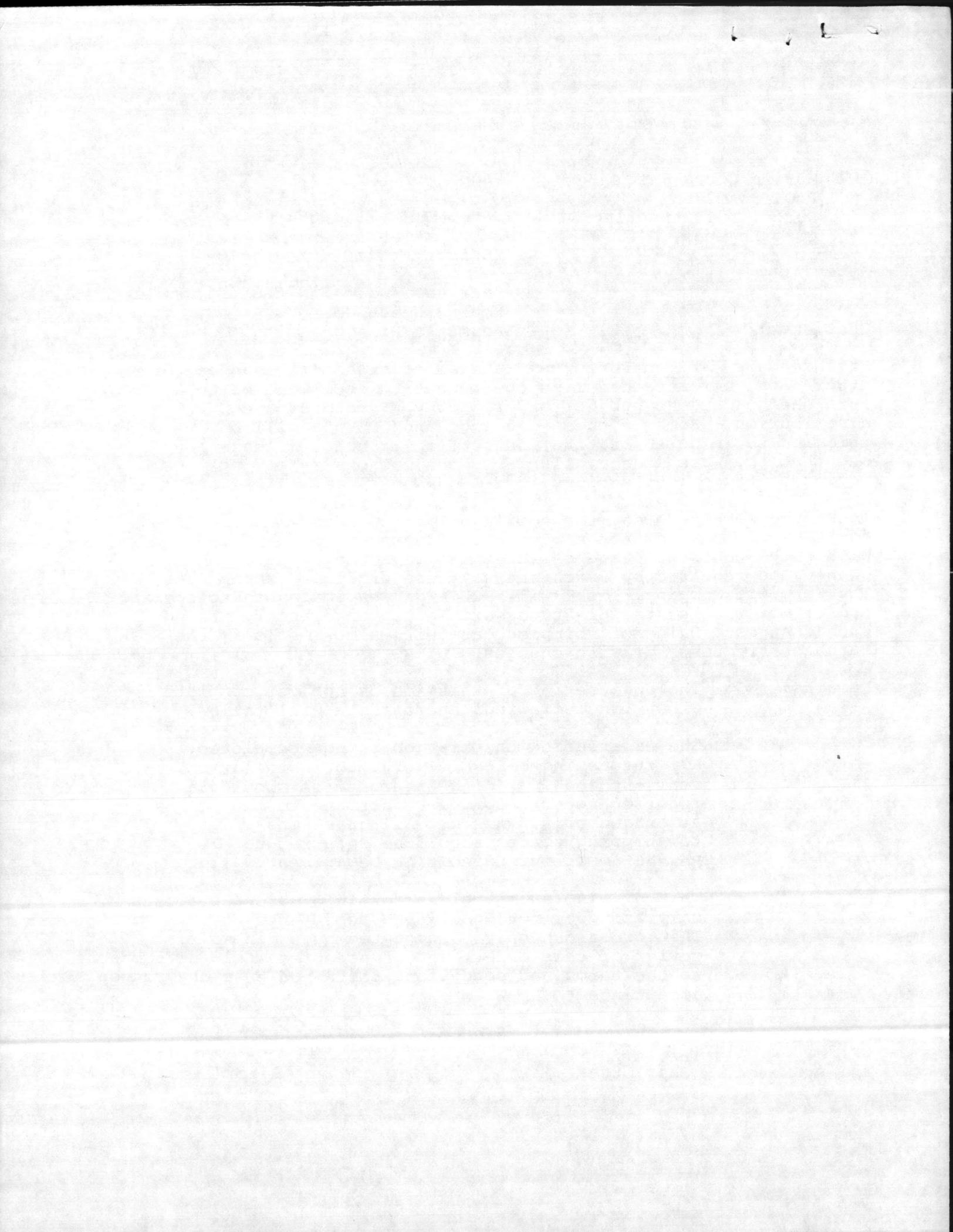
Remarks:

- The engineering of this job is not yet complete. Other final drawings and/or data will follow.
- The engineering on this job is now completed. All future inquiries relating to installation, start-up and Operating Instructions should be referred to our Service Department to the attention of R. Ransom. All questions relative to shipping status should be referred to D. Bessette of our Expediting Department.
- This drawing submittal is for information purposes only and does not constitute acceptance at this time. This order can only be accepted by us in writing after review of this order, and if accepted would be subject to the terms and conditions contained on such written acceptance.

cc: Order File (2)
R. Mercer - Charlotte

Signed: G. Mitchell

G. Mitchell
Engineering Specialist



Page 2 of 2

To: Same as page 1

Date: July 23, 1981

Subject: Marine Corps Base

Attn:

Your P.O. No. M67001-81-C-0271

Your Proj. No.

Permutit File No. A141L-28554-98

FOR APPROVAL

FOR FINAL

NUMBER

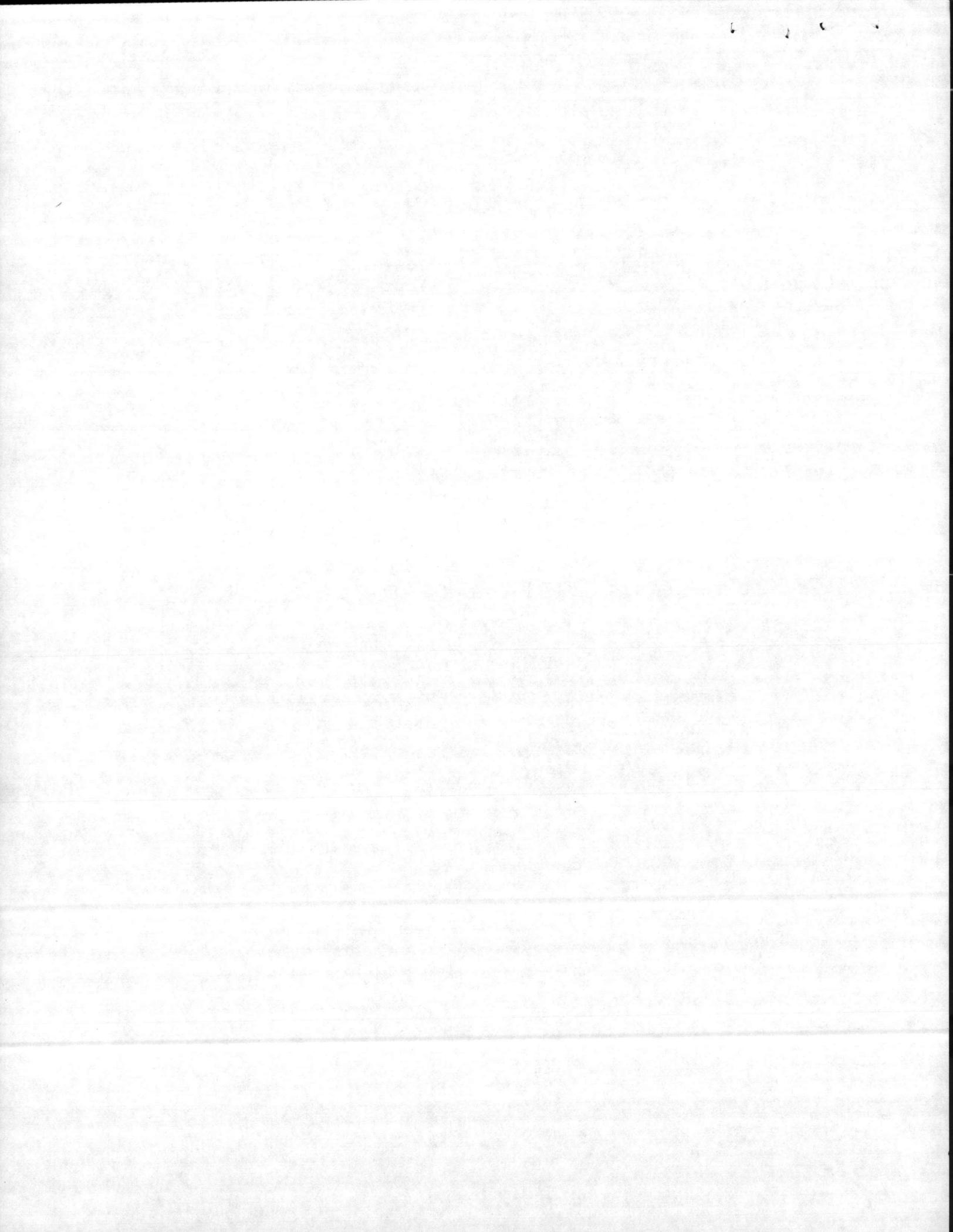
REV.

DESCRIPTION

185-15785
129-25357

Degasifier
Installation Dwg.

Bill of Material





BILL OF MATERIAL

MARINE CORPS BASE
CAMP LEJEUNE, N. C.

MADE 7/23/81 BY MITCHELL

(1) MODEL TDG-5-26 FORCED DRAFT
DEGASIFIER

JOB A141L-28554-98

SHEET 1 OF 1

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ACCT. 070-61-50

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NEWCOOSA
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NEKOOSA

BRAND

THE PERMUTIT COMPANY

BILL OF MATERIAL

100-13726

MADE 10/22/80 BY MITCHELL

TDG 5 FT. - 26 DEGASIFIER

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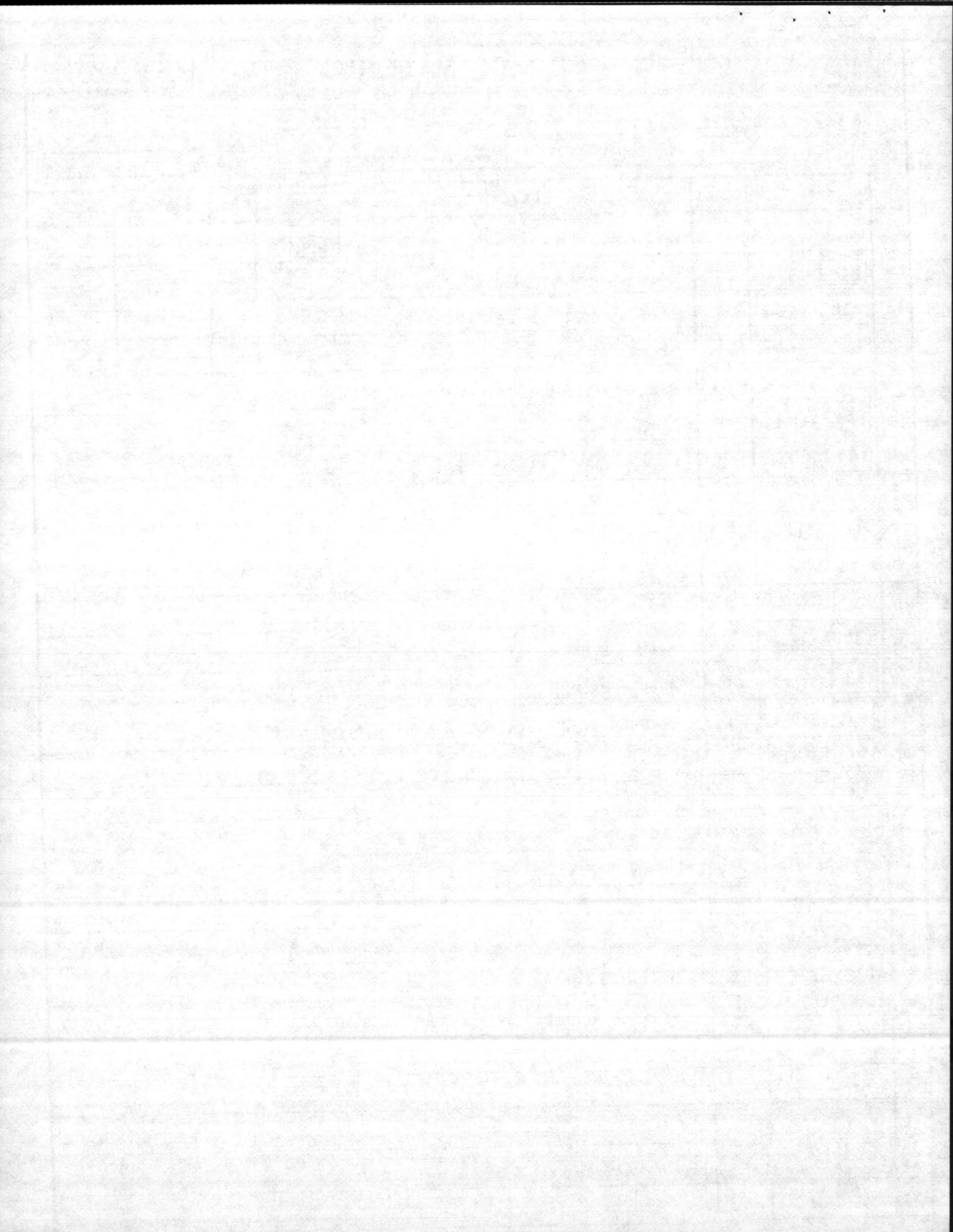
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DRAFT - VARIABLE B/M

JOB _____

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26	<input type="checkbox"/> -17503	<input checked="" type="checkbox"/>	STRUCTURAL CHANNEL BASE			
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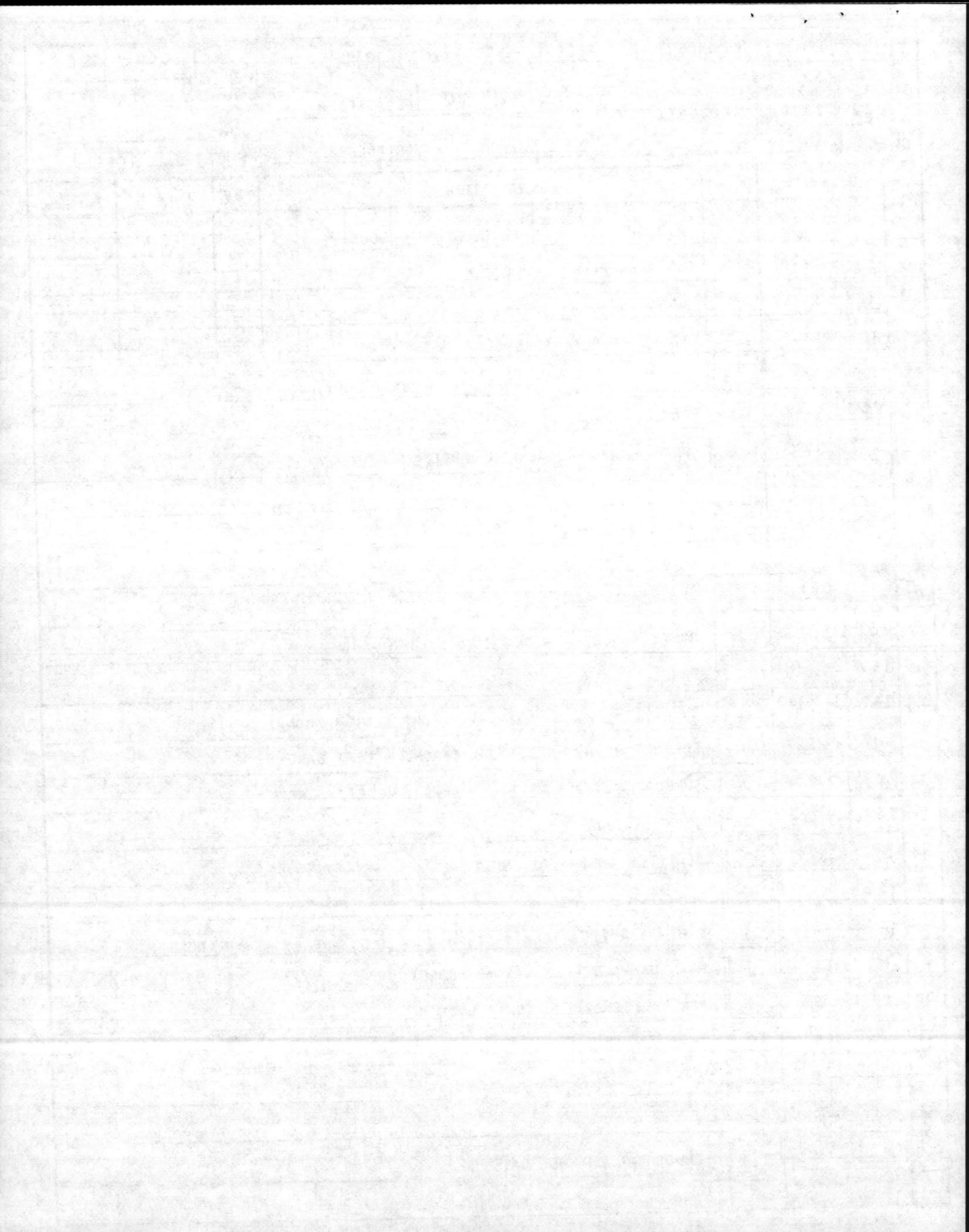
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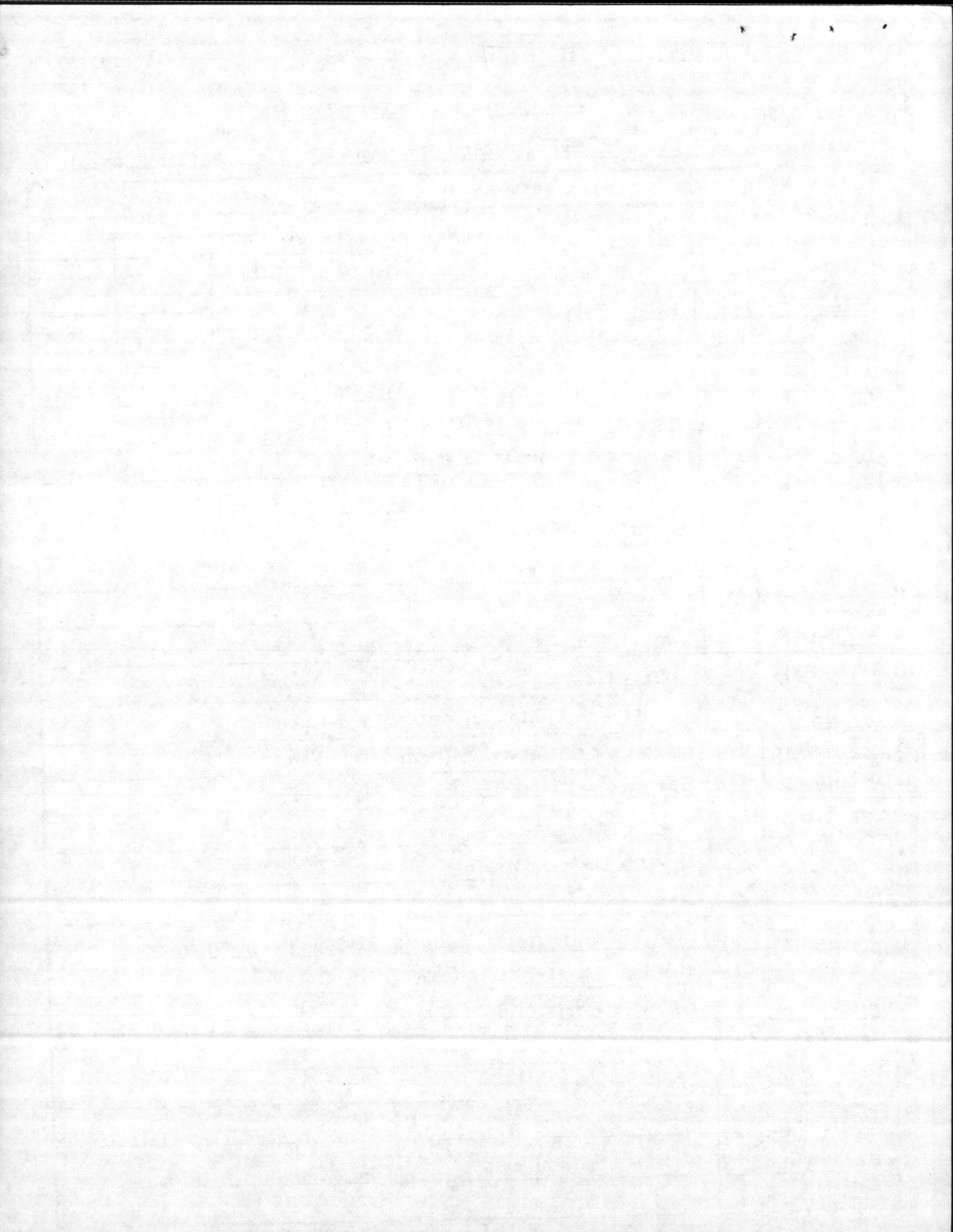
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SHEET 1 OF 1

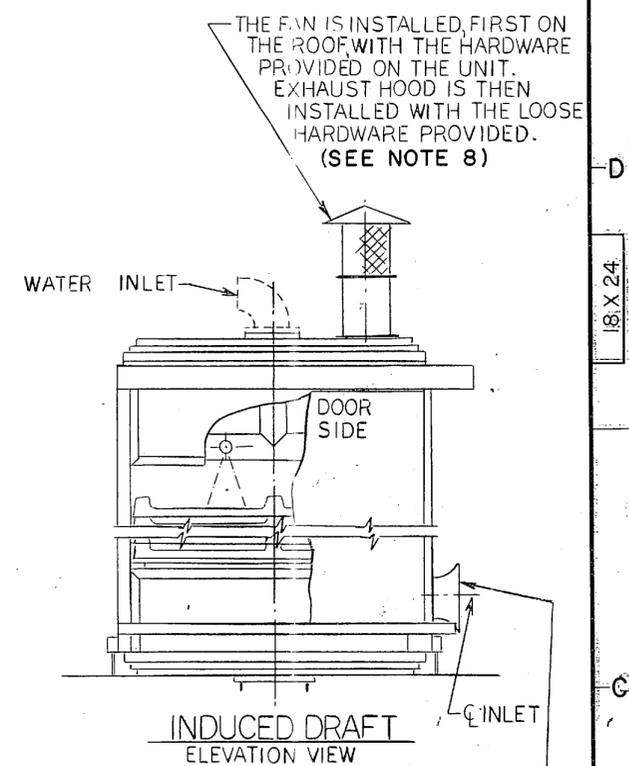
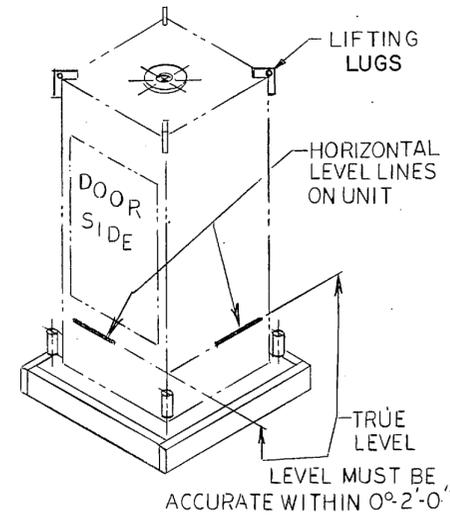
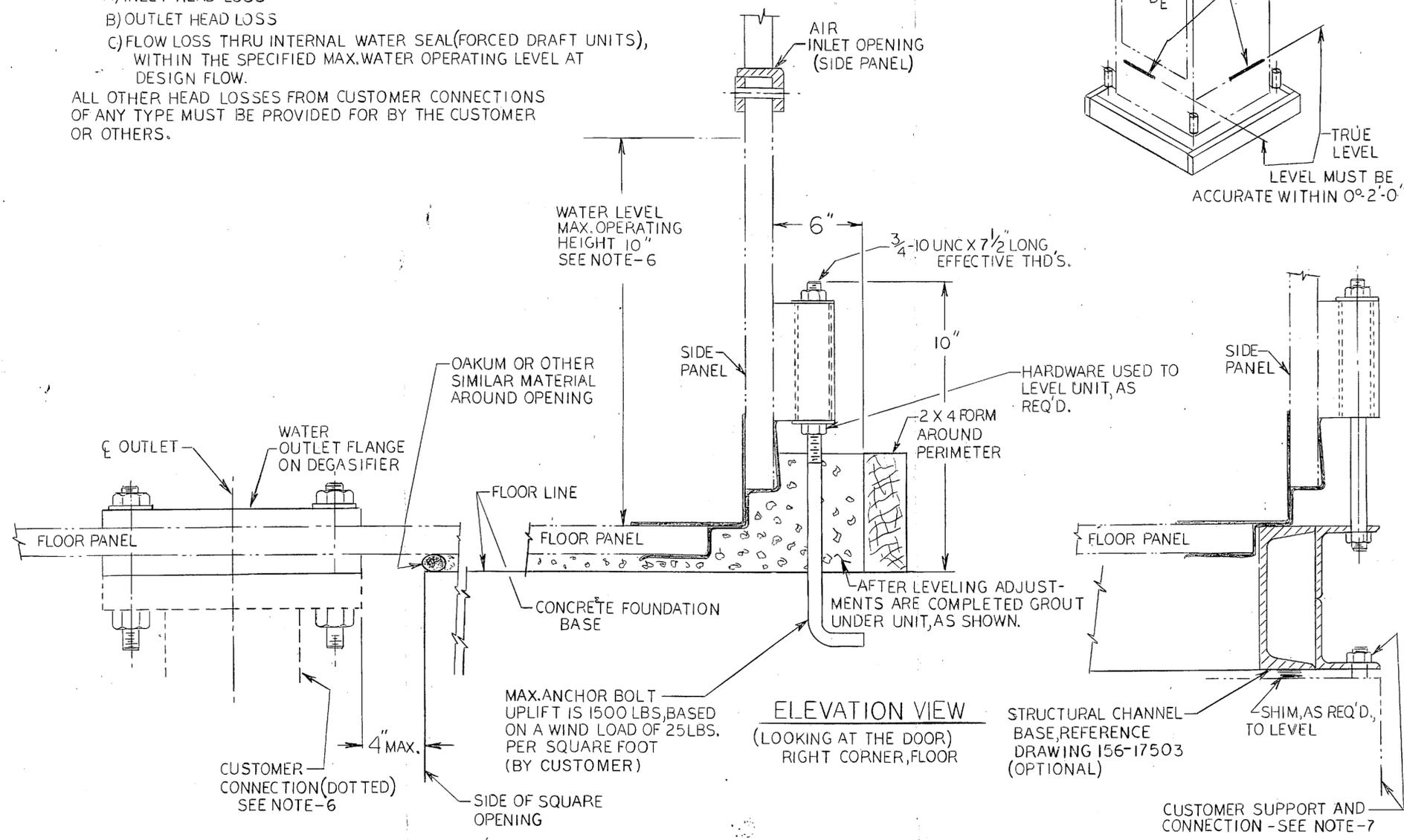
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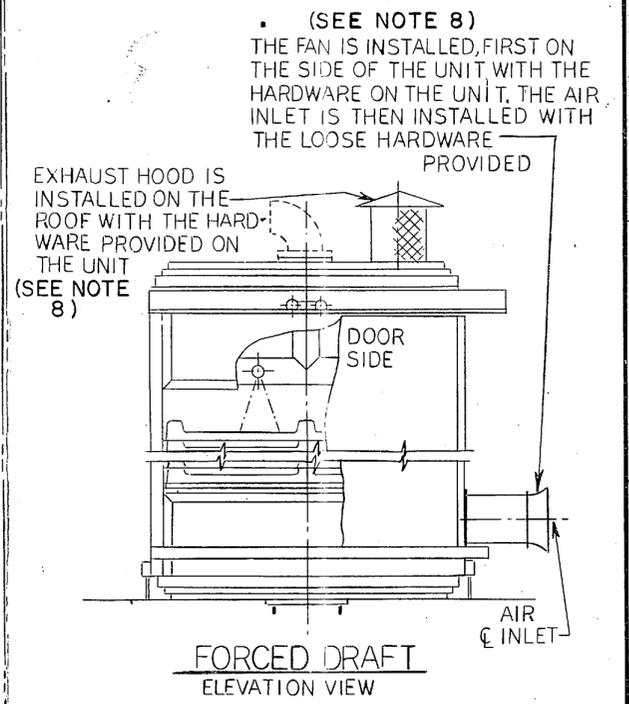
NOTES:

- 1- THIS UNIT IS COMPLETELY ASSEMBLED, THE TRAYS BEING FACTORY INSTALLED & RESTRAINED. THE UNIT IS TO BE INSTALLED PER THIS DRAWING WITHOUT REMOVING THE DOOR OR THE TRAY RESTRAINTS.
- 2- THE DIRECTION OF AIR FLOW AND THE DIRECTION OF PROPELLER ROTATION ARE INDICATED ON THE FAN HOUSING. THE FAN HOUSING SHOULD BE INSTALLED SUCH THAT THE MOTOR FEET POINT DOWNWARD. THE WIRING INFORMATION FOR CONNECTING THE MOTOR IS INSIDE THE FAN HOUSING, BY REMOVING THE QUICK RELEASE ACCESS DOOR.
- 3- WHEN BRINGING ELECTRICAL SERVICE TO THE FAN, THE CONTRACTOR SHOULD NOT PUT ANY SCREWS, HOLES, OR FASTENERS OF ANY TYPE INTO THE WHITE FIBERGLASS PANELS.
- 4- THE UNIT, WHEN INSTALLED, SHOULD BE LEFT INTACT AND NOT OPENED. IF IT IS NECESSARY FOR THE CONTRACTOR TO RUN WATER THROUGH THE UNIT TO TEST HIS CONNECTIONS, THIS IS PERMISSIBLE. IT IS INTENDED THAT THE TRAY RESTRAINTS BE REMOVED BY PERMUTIT SERVICE ENGINEER OR OTHERS DURING OR JUST PRIOR TO START UP.
- 5- MAX. PIPE REACTION ON THE INLET & OUTLET CONNECTIONS WILL BE 700 LBS.
- 6- THE WATER OUTLET IS DESIGNED TO PROVIDE
 - A) INLET HEAD LOSS
 - B) OUTLET HEAD LOSS
 - C) FLOW LOSS THRU INTERNAL WATER SEAL (FORCED DRAFT UNITS), WITHIN THE SPECIFIED MAX. WATER OPERATING LEVEL AT DESIGN FLOW.
 ALL OTHER HEAD LOSSES FROM CUSTOMER CONNECTIONS OF ANY TYPE MUST BE PROVIDED FOR BY THE CUSTOMER OR OTHERS.

- 7- STRUCTURAL CHANNEL BASE (OPTIONAL) IS DESIGNED TO SUPPORT THE DEGASIFIER WHEN THE CUSTOMER IS USING A FOUR POINT MOUNTING.
- 8- BEFORE MOUNTING AIR INLET, EXHAUST HOOD, OR FAN, APPLY GENERAL-PURPOSE CAULKING TO FLANGE SURFACES.



AIR INLET NOZZLE IS INSTALLED ON SIDE OF THE UNIT, WITH THE HARDWARE ON THE UNIT. (SEE NOTE 8)



EXHAUST HOOD IS INSTALLED ON THE ROOF WITH THE HARDWARE PROVIDED ON THE UNIT (SEE NOTE 8)

**DO NOT SCALE THIS DRAWING
USE DIMENSIONS ONLY**

THIS PRINT IS THE PROPERTY OF THE PERMUTIT COMPANY. IT IS TO BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS LENT, AND MUST NOT BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THIS COMPANY, AND IS SUBJECT TO RETURN UPON REQUEST.

REV.	BY	DATE	REVISIONS
1	RH	11-9-79	ECN 3502-S

DRAWN
RHH
CHECKED

APPR'D

DATE
11-9-79

SCALE
NONE

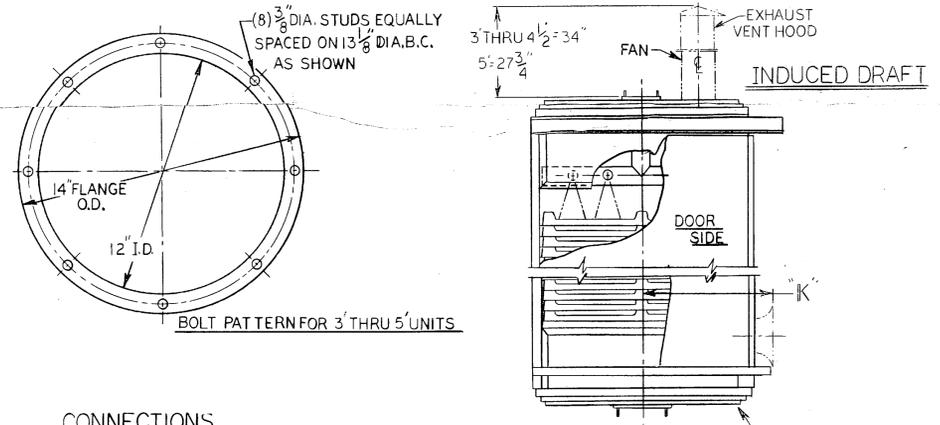
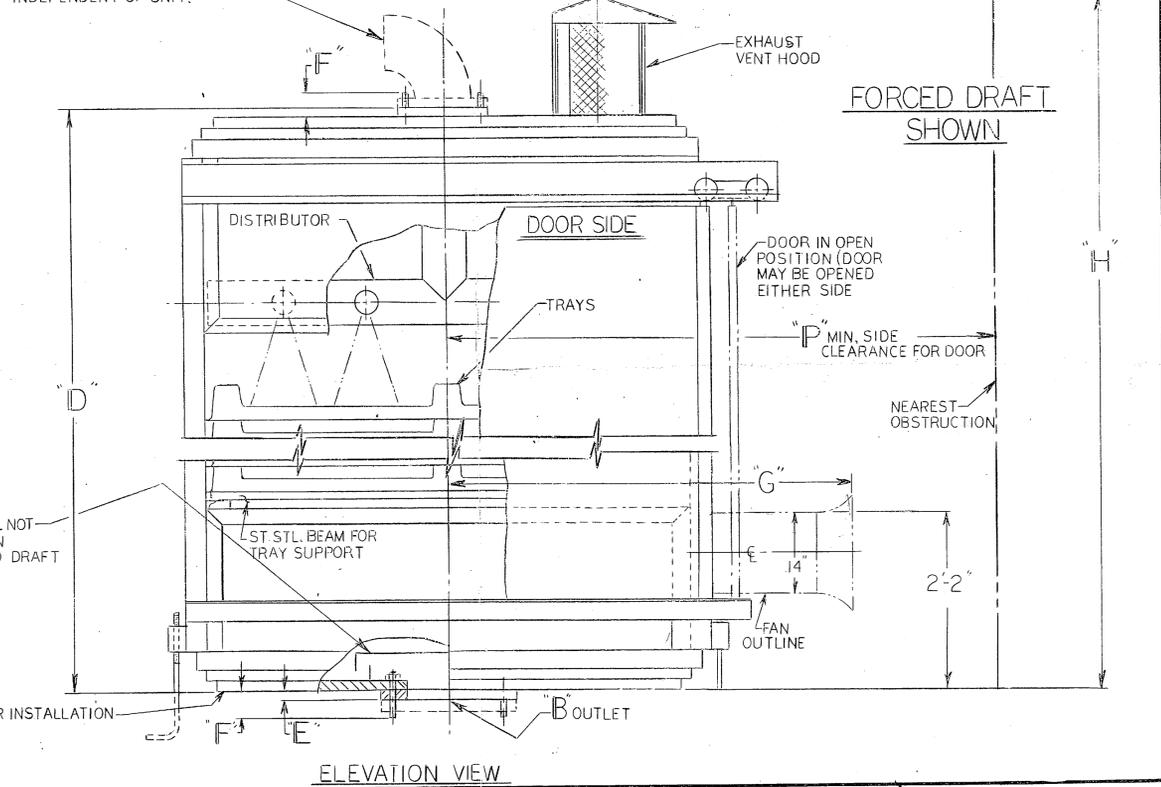
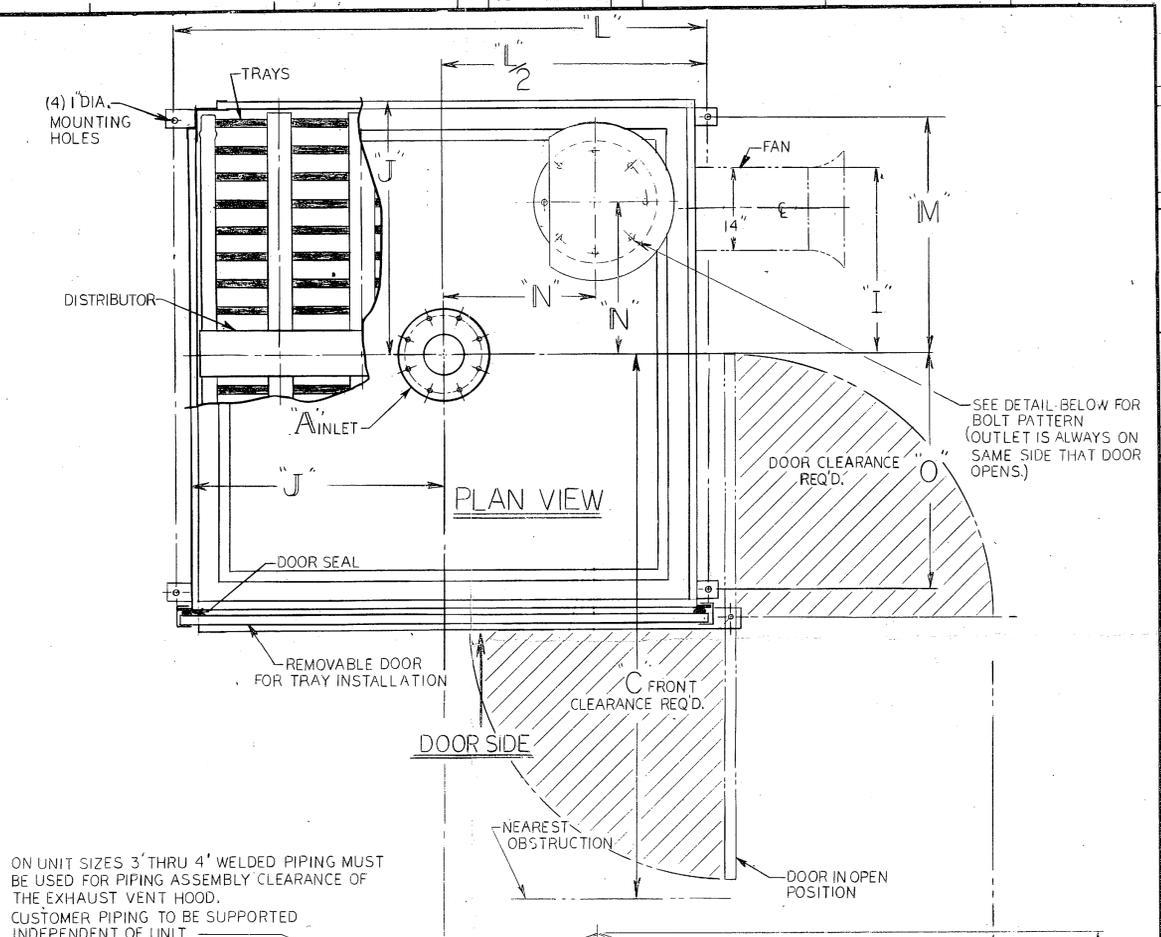
INSTALLATION DRAWING
FOR TRAY-TYPE DEGASIFIER

PERMUTIT®

DRAWING NO. 129-25357

SHEET 1 OF 1

MODEL NO.	G.P.M.	AREA SQ. FT.	FAN		WEIGHT IN LBS.		DIMENSIONS														
			VOLTS	H.P.	SHIPPING	OPERATING	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"	"J"	"K"	"L"	"M"	"N"	"O"
TDG-3-6	270	9	3/4	1,000	1,600	3"	6"	4'-6 1/2"	6'-1 1/8"	15 1/16"	27 1/16"	3'-9 1/4"	7'-7 1/8"	1'-2 1/2"	1'-6 7/8"	2'-5 1/4"	3'-4 5/8"	1'-6"	7 7/8"	1'-5 1/8"	3'-10"
-16				1,200	1,900				8'-1 1/8"				9'-7 1/8"								
-26				1,400	2,200				10'-1 1/8"				11'-7 1/8"								
-36				1,600	2,500				12'-1 1/8"				13'-7 1/8"								
-46				1,800	2,800				14'-1 1/8"				15'-7 1/8"								
-56				2,000	3,100				16'-1 1/8"				17'-7 1/8"								
-66				2,200	3,400				18'-1 1/8"				19'-7 1/8"								
TDG-3 1/2-6	367.5	12 1/4		1,100	1,900	4"	8"	5'-3 1/2"	6'-1 9/16"	1 1/8"	2 15/16"	4'-1 1/4"	7'-7 9/16"	1'-5"	1'-9 1/8"	2'-8 1/4"	3'-10 5/8"	1'-9"	9 7/8"	1'-8 3/8"	4'-4"
-16				1,300	2,300				8'-1 9/16"				9'-7 9/16"								
-26				1,500	2,600				10'-1 9/16"				11'-7 9/16"								
-36				1,700	3,000				12'-1 9/16"				13'-7 9/16"								
-46				1,900	3,300				14'-1 9/16"				15'-7 9/16"								
-56				2,200	3,700				16'-1 9/16"				17'-7 9/16"								
-66				2,400	4,000				18'-1 9/16"				19'-7 9/16"								
TDG-4-6	480	16		1,200	2,300			6'-1 1/2"	6'-1 9/16"			4'-3 1/4"	7'-7 9/16"	1'-6"	2'-1 3/8"	2'-11 1/4"	4'-4 5/8"	2'-0"	11"	1'-11 1/8"	4'-10"
-16				1,400	2,700				8'-1 9/16"				9'-7 9/16"								
-26				1,700	3,100				10'-1 9/16"				11'-7 9/16"								
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-66				2,500	4,800				18'-1 9/16"				19'-7 9/16"								
TDG-4 1/2-6	607.5	20 1/4		1,300	2,700	6"	10"	6'-9 1/2"	6'-2 3/4"			4'-6 1/4"	7'-8 3/4"	1'-7"	2'-3 7/8"	3'-2 1/4"	4'-10 5/8"	2'-3"	1'-0"	2'-2 1/2"	5'-4"
-16				1,500	3,200				8'-2 3/4"				9'-8 3/4"								
-26				1,800	3,700				10'-2 3/4"				11'-8 3/4"								
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TDG-5-6	750	25		1,400	3,200			5'-6 1/2"	6'-2 3/4"	1 3/16"	3 3/16"	4'-9 1/4"	7'-2 1/2"	1'-9 3/16"	2'-6 3/4"	3'-5 1/4"	5'-4 5/8"	2'-5 13/16"	1'-4"	2'-4 15/16"	5'-10"
-16				1,700	3,800				8'-2 3/4"				9'-2 1/2"								
-26				2,000	4,300				10'-2 3/4"				11'-2 1/2"								
-36				2,300	4,900				12'-2 3/4"				13'-2 1/2"								
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-56				2,900	6,100				16'-2 3/4"				17'-2 1/2"								
-66				3,200	6,600				18'-2 3/4"				19'-2 1/2"								



MATERIALS OF CONSTRUCTION
 CORNER SUPPORTS - STAINLESS STEEL
 SIDE PANELS - PERMUCORE
 TRAYS - STYRENE
 DISTRIBUTOR - PVC
 FAN - COATED STEEL
 AIR HOODS & SCREENING - ALUMINUM

CONNECTIONS
 ST. STL. STUDS ARE PROVIDED TO SUIT STD. 125#
 FLANGES, BOLT HOLES STRADDLE CENTERLINE.
 STUDS ARE PERMANENTLY ATTACHED TO
 DEGRASIFIER

SUPPORTS FOR UNIT PER INSTALLATION
 DRAWING 129-25357

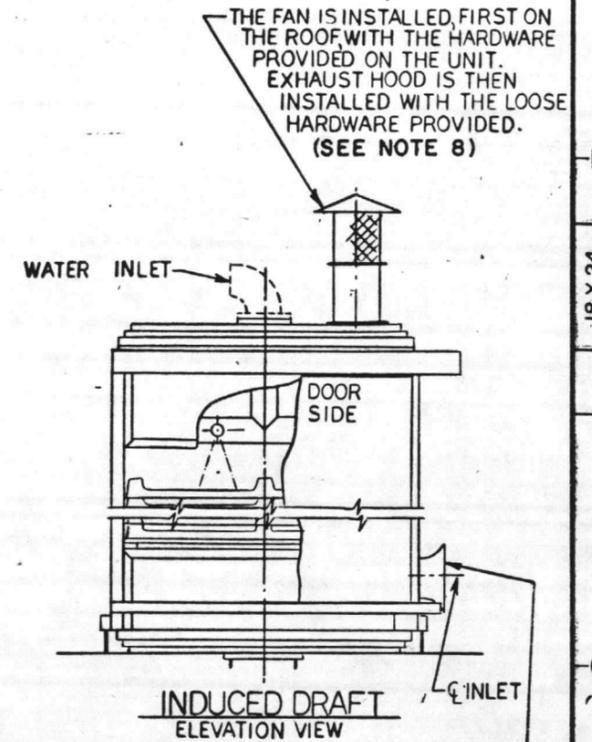
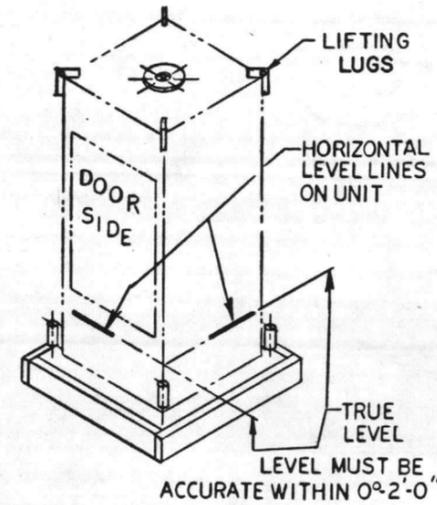
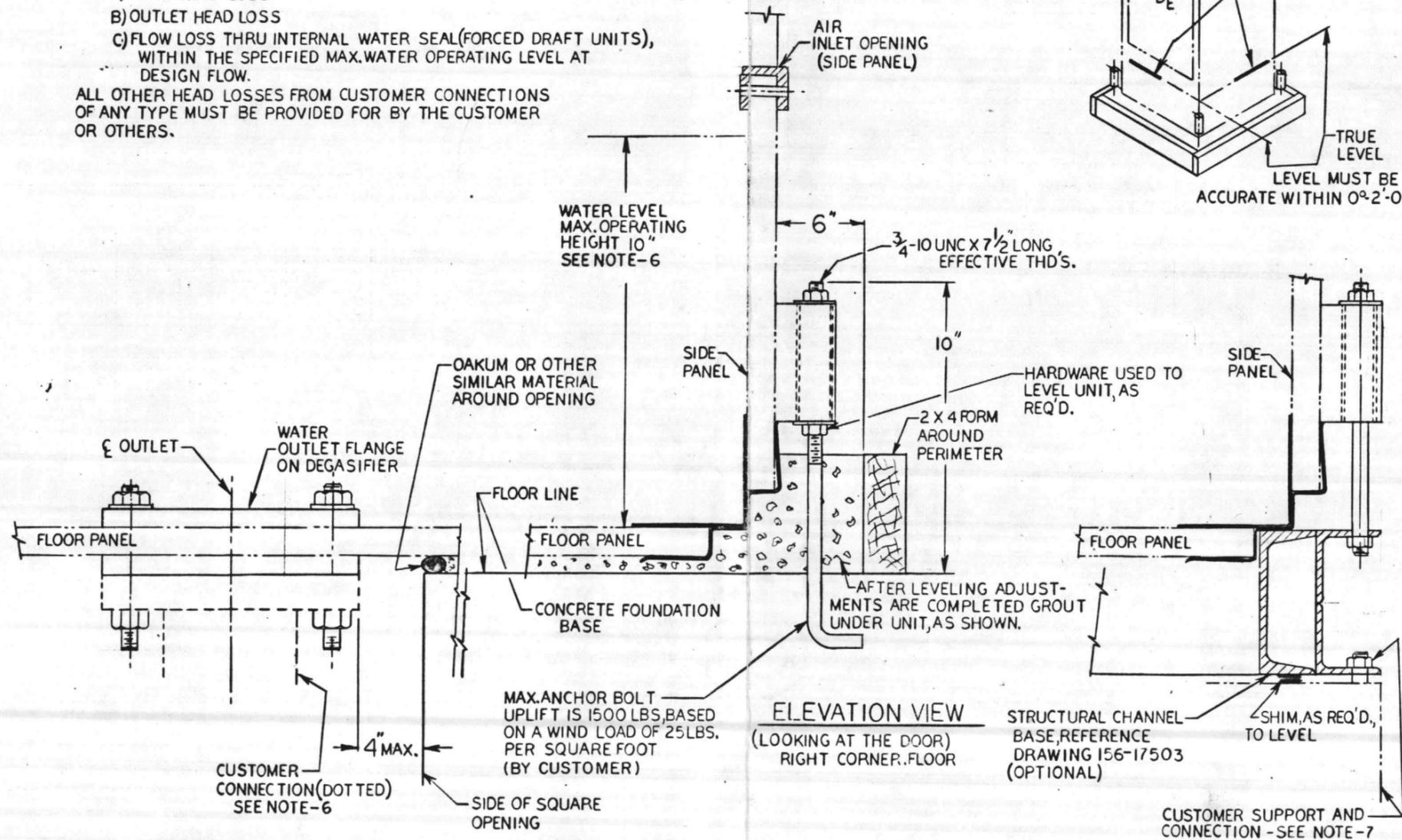
<p>DO NOT SCALE THIS DRAWING USE DIMENSIONS ONLY</p> <p>THIS PRINT IS THE PROPERTY OF THE PERMUTIT COMPANY. IT IS TO BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS LENT, AND MUST NOT BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THIS COMPANY, AND IS SUBJECT TO RETURN UPON REQUEST.</p>				<p>REV. BY DATE REVISIONS</p> <p>A RHC 5-1-79 ECN 3502-U</p> <p>B RHH 5-18-79 ECN 3502-V</p> <p>C RHH 10-23-79 ECN 3502-S</p> <p>D RHH 3-27-80 ECN 3502-X</p>				<p>REV. BY DATE REVISIONS</p>				<p>DRAWN RHH CHECKED</p> <p>APPR'D</p> <p>DATE 12-5-78</p> <p>SCALE NONE</p>		<p>TRAY-TYPE DEGASIFIER FORCED OR INDUCED DRAFT</p> <p>3 FT. THRU 5 FT. SQUARE</p>		<p>PERMUTIT®</p> <p>DRAWING NO. 185-15785</p> <p>REV. D</p>	
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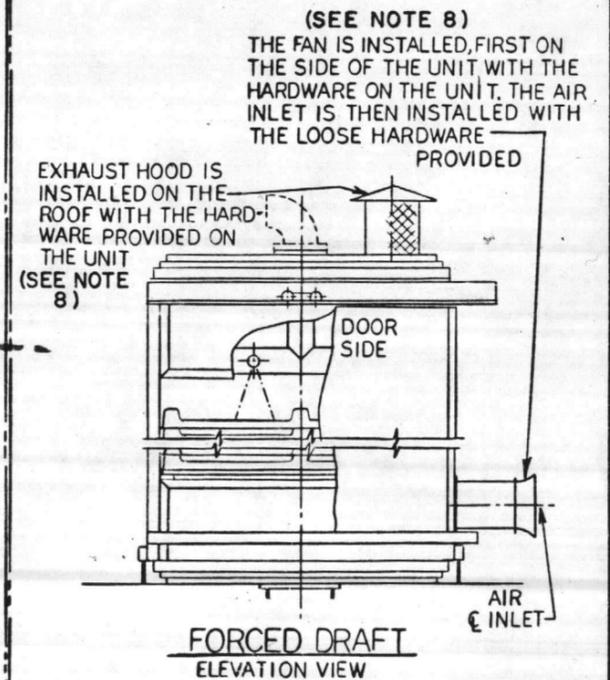
NOTES:

- 1- THIS UNIT IS COMPLETELY ASSEMBLED, THE TRAYS BEING FACTORY INSTALLED & RESTRAINED. THE UNIT IS TO BE INSTALLED PER THIS DRAWING WITHOUT REMOVING THE DOOR OR THE TRAY RESTRAINTS.
- 2- THE DIRECTION OF AIR FLOW AND THE DIRECTION OF PROPELLER ROTATION ARE INDICATED ON THE FAN HOUSING. THE FAN HOUSING SHOULD BE INSTALLED SUCH THAT THE MOTOR FEET POINT DOWNWARD. THE WIRING INFORMATION FOR CONNECTING THE MOTOR IS INSIDE THE FAN HOUSING, BY REMOVING THE QUICK RELEASE ACCESS DOOR.
- 3- WHEN BRINGING ELECTRICAL SERVICE TO THE FAN, THE CONTRACTOR SHOULD NOT PUT ANY SCREWS, HOLES, OR FASTENERS OF ANY TYPE INTO THE WHITE FIBERGLASS PANELS.
- 4- THE UNIT, WHEN INSTALLED, SHOULD BE LEFT INTACT AND NOT OPENED. IF IT IS NECESSARY FOR THE CONTRACTOR TO RUN WATER THROUGH THE UNIT TO TEST HIS CONNECTIONS, THIS IS PERMISSIBLE. IT IS INTENDED THAT THE TRAY RESTRAINTS BE REMOVED BY PERMIT SERVICE ENGINEER OR OTHERS DURING OR JUST PRIOR TO START UP.
- 5- MAX. PIPE REACTION ON THE INLET & OUTLET CONNECTIONS WILL BE 700 LBS.
- 6- THE WATER OUTLET IS DESIGNED TO PROVIDE
 - A) INLET HEAD LOSS
 - B) OUTLET HEAD LOSS
 - C) FLOW LOSS THRU INTERNAL WATER SEAL (FORCED DRAFT UNITS), WITHIN THE SPECIFIED MAX. WATER OPERATING LEVEL AT DESIGN FLOW.
 ALL OTHER HEAD LOSSES FROM CUSTOMER CONNECTIONS OF ANY TYPE MUST BE PROVIDED FOR BY THE CUSTOMER OR OTHERS.

- 7- STRUCTURAL CHANNEL BASE (OPTIONAL) IS DESIGNED TO SUPPORT THE DEGASIFIER, WHEN THE CUSTOMER IS USING A FOUR POINT MOUNTING.
- 8- BEFORE MOUNTING AIR INLET, EXHAUST HOOD, OR FAN, APPLY GENERAL-PURPOSE CAULKING TO FLANGE SURFACES.



AIR INLET NOZZLE IS INSTALLED ON SIDE OF THE UNIT, WITH THE HARDWARE ON THE UNIT. (SEE NOTE 8)



**DO NOT SCALE THIS DRAWING
USE DIMENSIONS ONLY**

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REV.	BY	DATE	REVISIONS
-	RHH	11-9-79	ECN 3502-5

DRAWN RHH
CHECKED
APPR'D
DATE 11-9-79
SCALE NONE

INSTALLATION DRAWING
FOR TRAY-TYPE DEGASIFIER

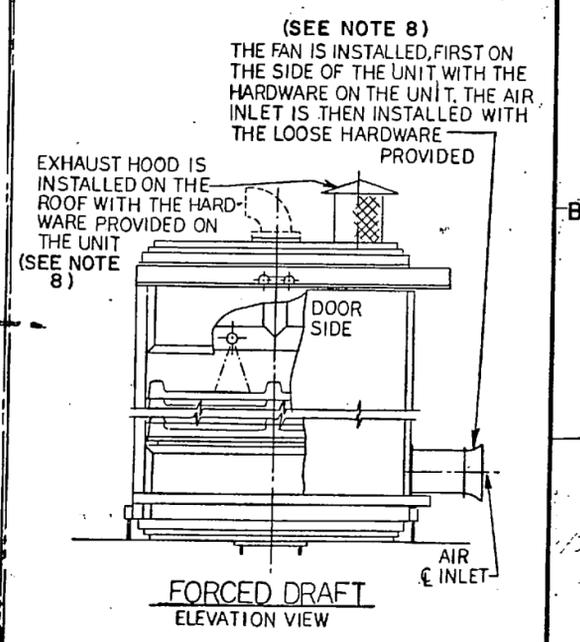
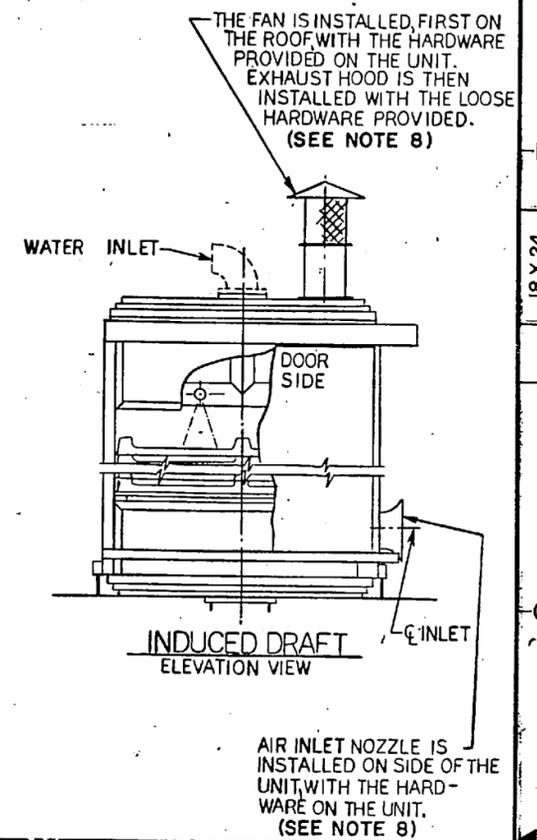
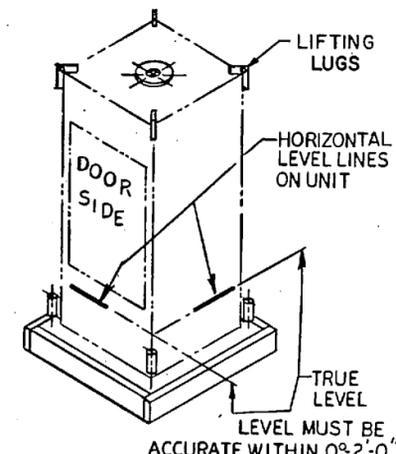
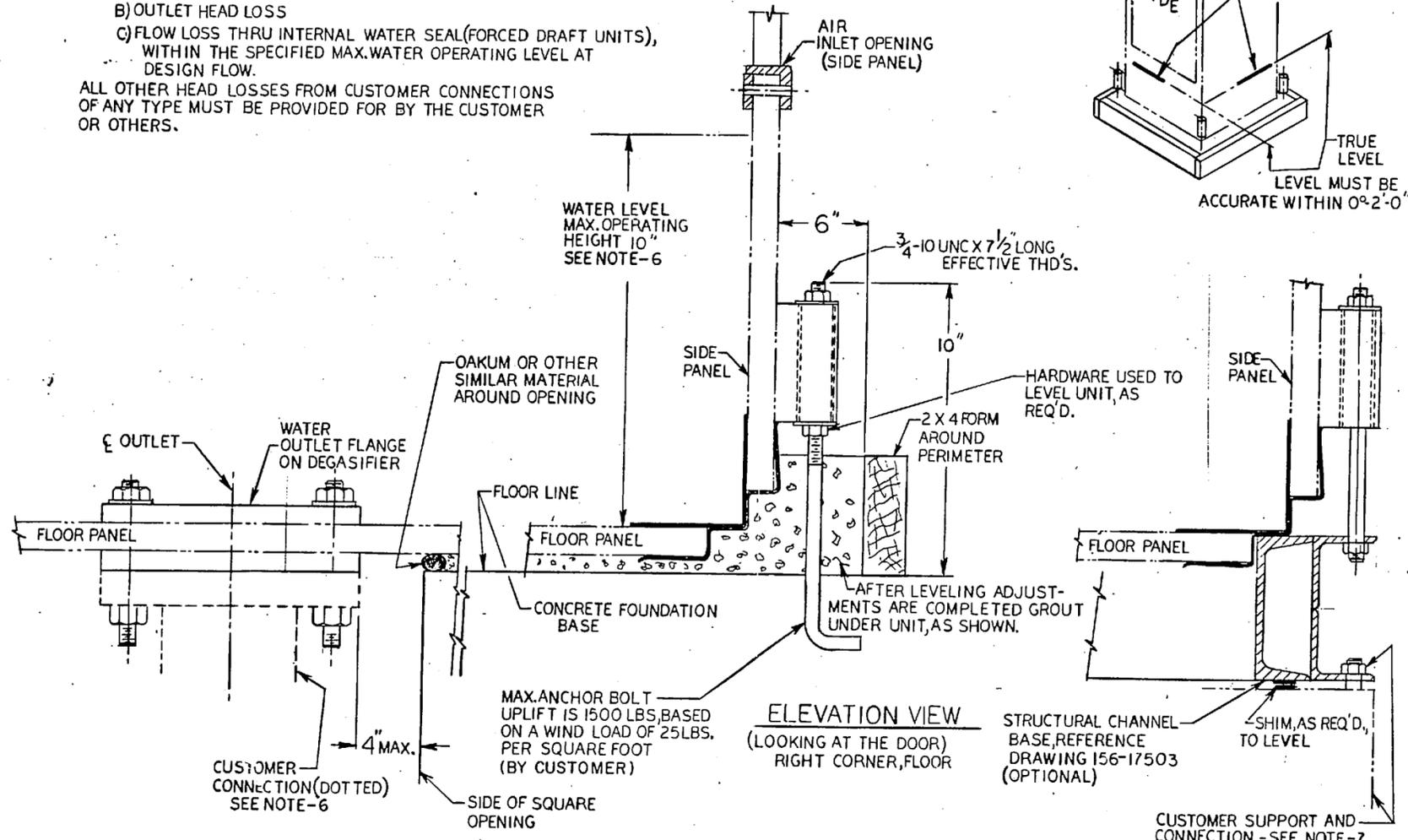
PERMUTIT®

DRAWING NO. 129-25357
SHEET OF

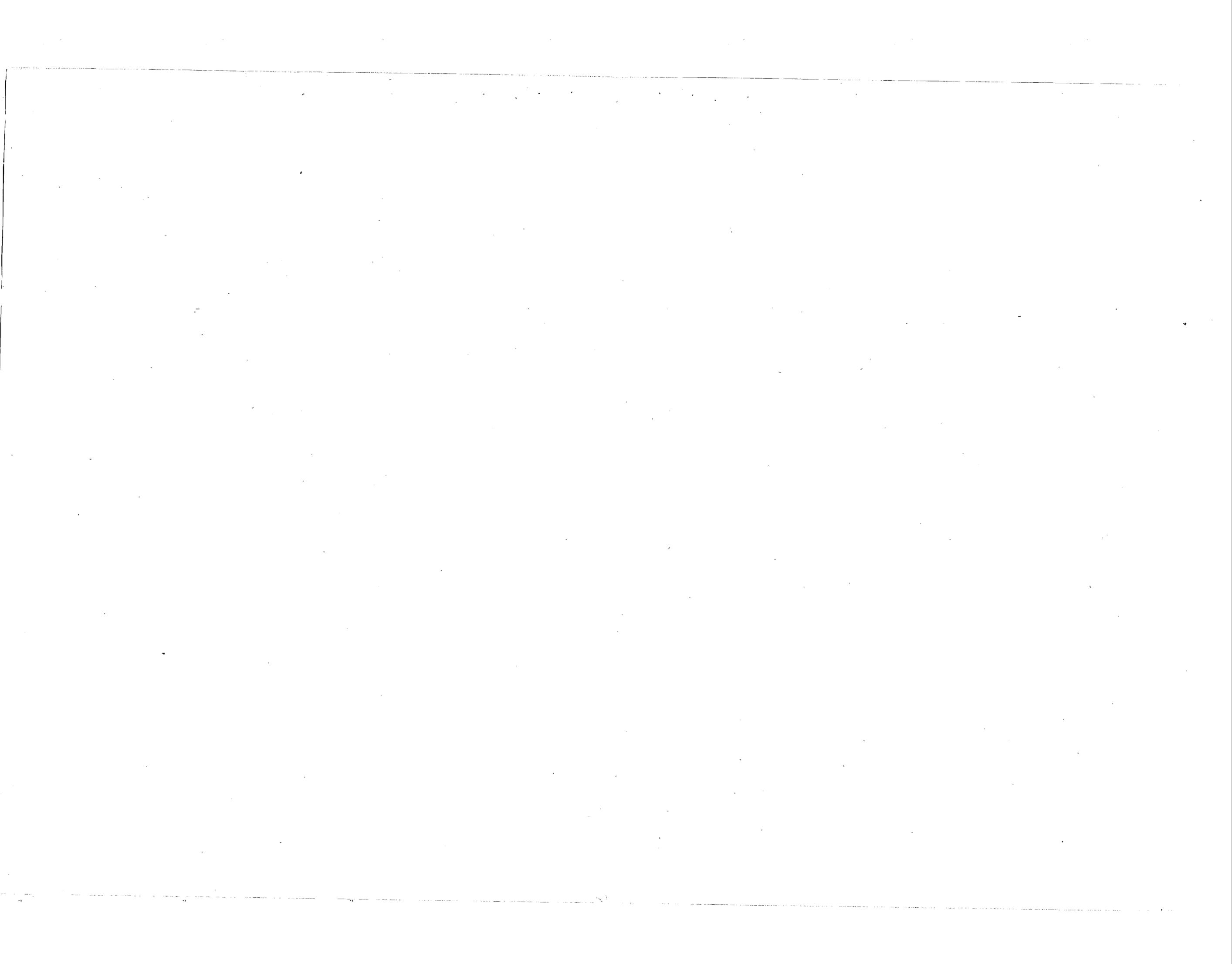
NOTES:

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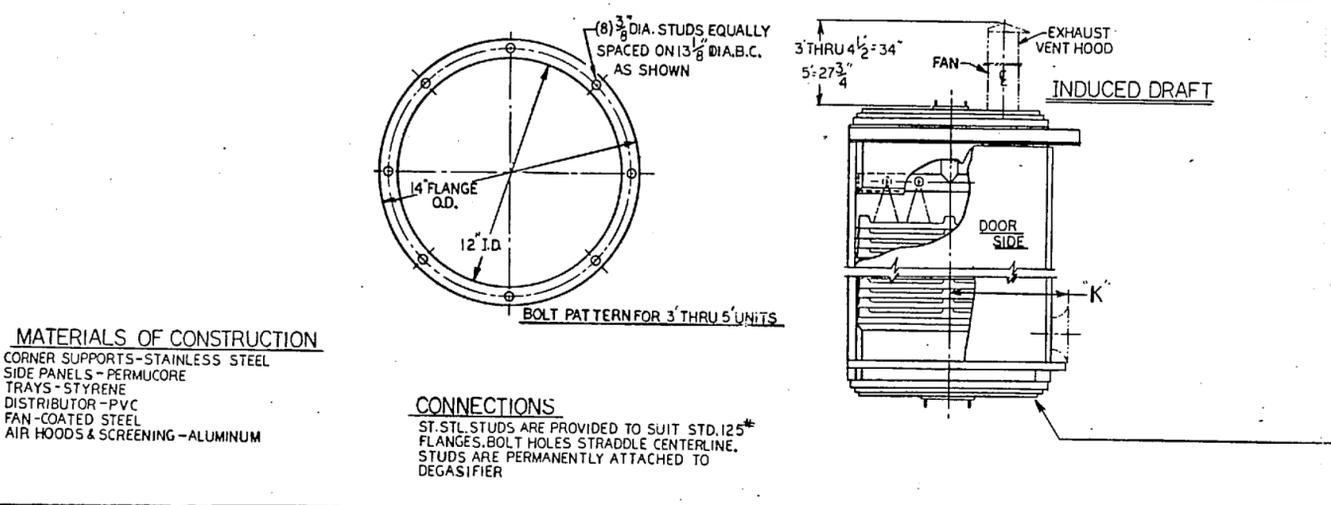
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DO NOT SCALE THIS DRAWING USE DIMENSIONS ONLY.	REV.	BY	DATE	REVISIONS	DRAWN RHH	INSTALLATION DRAWING FOR TRAY-TYPE DEGASIFIER	PERMUTIT®
	-	RHH	11-9-79	ECN 3502-S			
THIS PRINT IS THE PROPERTY OF THE PERMUTIT COMPANY. IT IS TO BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS LENT, AND MUST NOT BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THIS COMPANY, AND IS SUBJECT TO RETURN UPON REQUEST.					APPR'D		DRAWING NO.
					DATE		129-25357
					11-9-79		SHEET
					SCALE		OF
					NONE		



MODEL NO.	G.P.M.	AREA SQ. FT.	FAN		WEIGHT IN LBS.		DIMENSIONS															
			VOLTS	H.R.	SHIPPING	OPERATING	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"	"J"	"K"	"L"	"M"	"N"	"O"	"P"
TDG-3-6	270	9	3/4	1,000	1,600	3"	6"	4'-6 1/2"	6'-1 1/8"	15 1/16"	2 7/16"	3'-9 3/4"	7'-7 1/8"	1'-2 1/2"	1'-6 7/8"	2'-5 1/4"	3'-4 5/8"	1'-6"	7 7/8"	1'-5 1/8"	3'-10"	
-16				1,200	1,900				8'-1 1/8"				9'-7 1/8"									
-26				1,400	2,200				10'-1 1/8"				11'-7 1/8"									
-36				1,600	2,500				12'-1 1/8"				13'-7 1/8"									
-46				1,800	2,800				14'-1 1/8"				15'-7 1/8"									
-56				2,000	3,100				16'-1 1/8"				17'-7 1/8"									
-66				2,200	3,400				18'-1 1/8"				19'-7 1/8"									
TDG-3 1/2-6	367.5	12 1/4		1,100	1,900	4"	8"	5'-3 1/2"	6'-1 1/16"	1 1/8"	2 1/16"	4'-1 1/4"	7'-7 3/16"	1'-5"	1'-9 1/8"	2'-8 1/4"	3'-10 3/8"	1'-9"	9 7/8"	1'-8 1/8"	4'-4"	
-16				1,300	2,300				8'-1 9/16"				9'-7 3/16"									
-26				1,500	2,600				10'-1 9/16"				11'-7 9/16"									
-36				1,700	3,000				12'-1 9/16"				13'-7 9/16"									
-46				1,900	3,300				14'-1 9/16"				15'-7 9/16"									
-56				2,200	3,700				16'-1 9/16"				17'-7 9/16"									
-66				2,400	4,000				18'-1 9/16"				19'-7 9/16"									
TDG-4-6	480	16		1,200	2,300				6'-1 1/2"			4'-3 1/4"	7'-7 3/16"	1'-6"	2'-2 7/8"	2'-11 1/4"	4'-4 5/8"	2'-0"	11"	1'-11 1/8"	4'-10"	
-16				1,400	2,700				8'-1 9/16"				9'-7 9/16"									
-26				1,700	3,100				10'-1 9/16"				11'-7 9/16"									
-36				1,900	3,500				12'-1 9/16"				13'-7 9/16"									
-46				2,200	4,000				14'-1 9/16"				15'-7 9/16"									
-56				2,400	4,400				16'-1 9/16"				17'-7 9/16"									
-66				2,500	4,800				18'-1 9/16"				19'-7 9/16"									
TDG-4 1/2-6	607.5	20 1/4		1,300	2,700	6"	10"	6'-3 1/2"	6'-2 3/4"			4'-6 1/4"	7'-8 3/4"	1'-7"	2'-3 3/8"	3'-2 1/4"	4'-10 5/8"	2'-3"	1'-0"	2'-2 1/8"	5'-4"	
-16				1,500	3,200				8'-2 3/4"				9'-8 3/4"									
-26				1,800	3,700				10'-2 3/4"				11'-8 3/4"									
-36				2,100	4,200				12'-2 3/4"				13'-8 3/4"									
-46				2,400	4,700				14'-2 3/4"				15'-8 3/4"									
-56				2,600	5,200				16'-2 3/4"				17'-8 3/4"									
-66				2,900	5,700				18'-2 3/4"				19'-8 3/4"									
TDG-5-6	750	25		1,400	3,200			5'-6 1/2"	6'-2 3/4"	1 3/16"	3 3/16"	4'-9 1/4"	7'-2 1/2"	1'-9 3/16"	2'-6 3/4"	3'-5 1/4"	5'-4 5/8"	2'-5 1/16"	1'-4"	2'-4 1/16"	5'-10"	
-16				1,700	3,800				8'-2 3/4"				9'-2 1/2"									
-26				2,000	4,300				10'-2 3/4"				11'-2 1/2"									
-36				2,300	4,900				12'-2 3/4"				13'-2 1/2"									
-46				2,600	5,500				14'-2 3/4"				15'-2 1/2"									
-56				2,900	6,100				16'-2 3/4"				17'-2 1/2"									
-66				3,200	6,600				18'-2 3/4"				19'-2 1/2"									



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REV	BY	DATE	REVISIONS	REV	BY	DATE	REVISIONS
A	FDC	5-1-79	ECN 3502-U				
B	RHH	5-18-79	ECN 3502-V				
C	RHH	1-23-77	ECN 3502-S				
D	RHH	5-27-80	ECN 3502-X				

